

Northwest Pipeline – LNG/Infrastructure Update

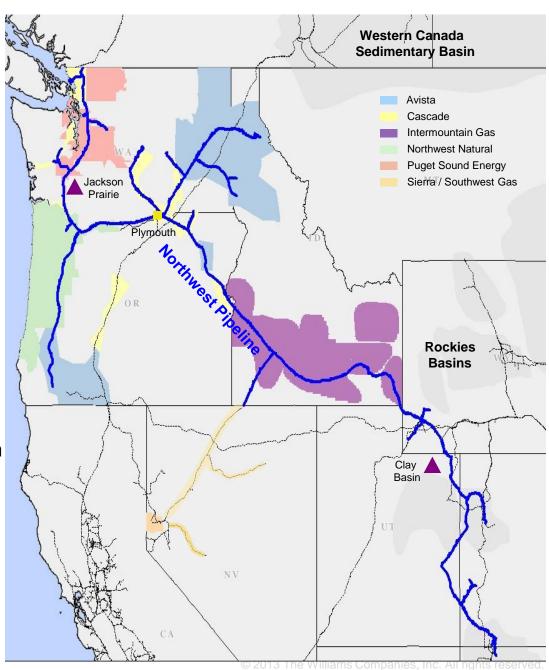
Xan Kotter, Business Development Project Manager March 13, 2014



Backbone of the Pacific Northwest gas delivery system

> Northwest Pipeline

- Interconnect with seven interstate pipelines in the Rockies
- 3.7 MMDth/d peak design capacity
- 14 MMDth of storage capacity (716 MDth/d deliverability)
- Bi-directional system with access to abundant domestic and Canadian gas supplies
- History of expanding the system to meet customers growth needs





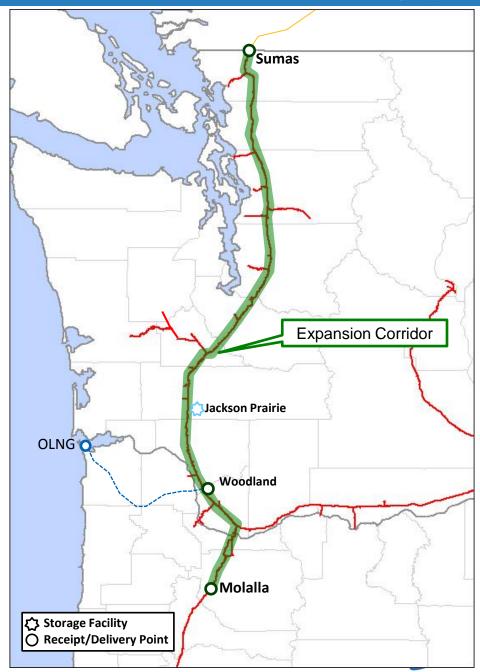
Northwest Pipeline Business Development Update

- > Major Expansion to Serve PNW Market Growth
 - Phased Washington Expansion Project (2016/2017)
- > Major Expansion to Serve West Coast LNG
 - Pacific Connector Gas Pipeline to serve Jordan Cove (2018);
 - Washington Expansion Project (2018);
 - Plymouth LNG truck loading service (2014)

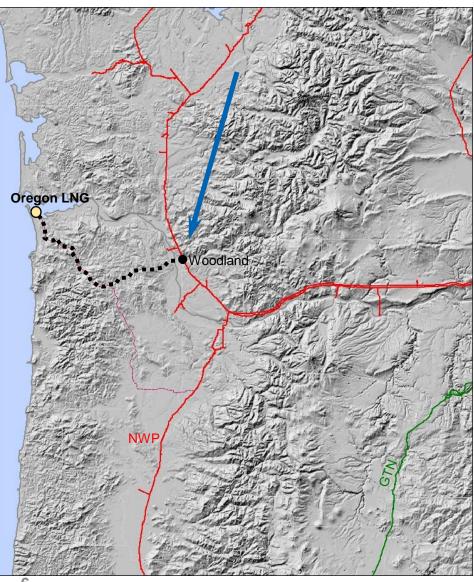


Washington Expansion Project (WEP)

- > Incremental expansion from Sumas to markets in the Pacific Northwest I-5 corridor as far south as Molalla, OR
 - Oregon LNG is the anchor customer requesting 750 MDth/d of incremental transportation to serve their proposed LNG export terminal
 - An earlier phase of WEP is not dependent on OLNG
 - Project can be scaled to meet smaller regional needs
- > The WEP is an expansion of the Northwest Pipeline system that will be operated in accordance with its FERC Gas Tariff



Oregon LNG



Project Sponsor: LNG Development Company

Suppliers: Unknown – Discussions with Canadian suppliers Market: Unknown – Discussions with Asian buyers

Project Description

Liquefaction

Located on Skipanon peninsula in Warrenton, Oregon New Berth – Columbia River Up to 2 – 4.5 MTPA trains (~625 MDth/d each) 2 – 160,000 m3 storage tanks (3.4 Bcf)

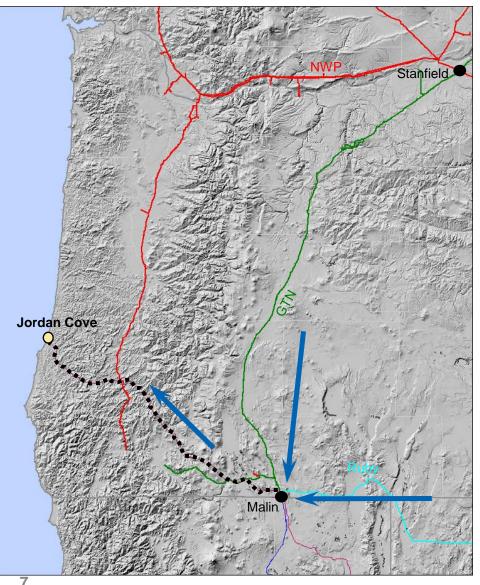
<u>Pipeline</u> (Oregon Pipeline) 86-mile, 36-inch pipeline from NWP Woodland to Warrenton

Project Status:

- Filed FERC application June 2013 for the WEP
- > 2018 estimated in-service date



Jordan Cove



Project Sponsor: Veresen

Suppliers: Unknown – Discussions with Rockies/Canadian suppliers

Market: 6 parties representing various free trade and non free trade

countries have officially expressed interest

Project Description:

Liquefaction

Located on 200-acre site on the North Spit of Coos Bay New berth/slip

Liquefaction Capacity of 6 million Metric Tonnes per Annum 2 – 160,000 m3 storage tanks (3.4 Bcf)

New gas processing and power plant facilities on site

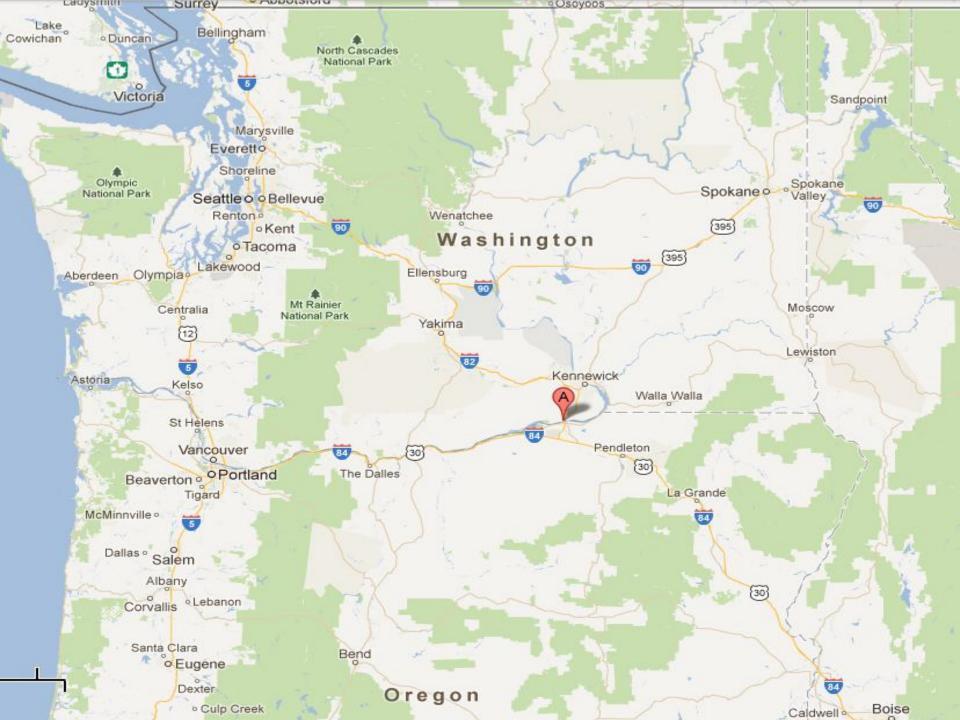
<u>Pipeline</u> (Pacific Connector Gas Pipeline) 232-mile, 36-inch pipeline from Malin to Coos Bay site Compressor station located at Malin

Project Status:

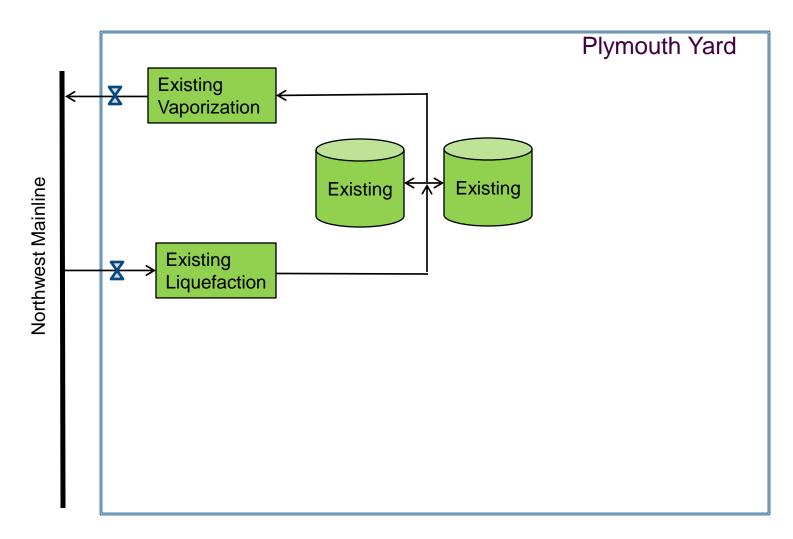
- Export terminal and PCGP filed FERC applications in June 2013
- > Received DOE export license for FTA countries license application for non-FTA countries currently 1st in DOE queue
- > Entered into 6 non-binding expressions of interest with customer representing in excess of 237% of capacity
- > 2018 estimated in-service



Plymouth LNG Delivery Services Williams



Existing Plymouth LNG Operations



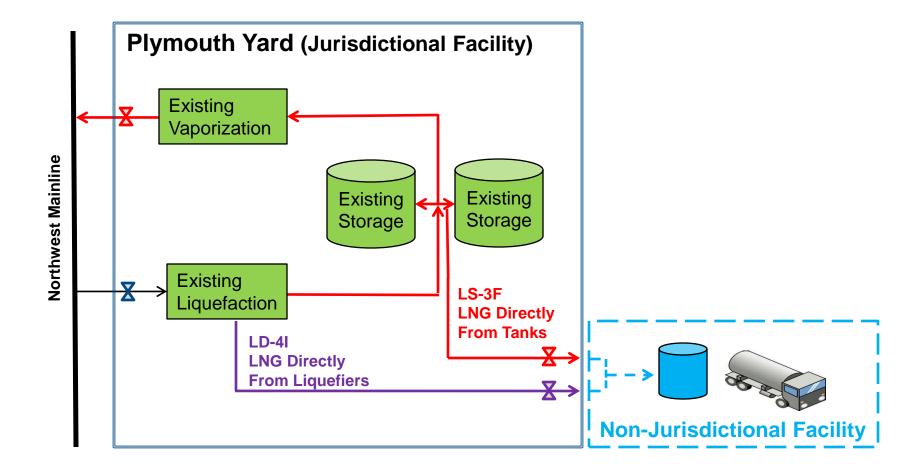


Market Driven Opportunity

- > The option to liquefy gas year-round to serve the VNG market
 - Access to I-84, I-82, I-90, and I-5
- Introduction of a non-jurisdictional truck loading service for a new third party that is constructing a stand-alone LNG tank and truck loading facility
- Introduction of a non-jurisdictional truck loading service for existing Plymouth capacity holders



New Plymouth LNG Delivery Services Overview





Plymouth LNG Delivery Service Project Timeline

> Key dates

✓ Apr 2013	Made 7(c) filing seeking FERC authorization to construct
	and operate the Blue Water LNG meter station and approval
	of the pro forma rate schedules LS-3F and LD-4I (Docket
	CP13-160)

- ✓ Oct 2013 Received FERC certificate order authorizing the construction and operation of the Blue Water LNG meter station and approval of the pro forma rate schedules, including initial rates
- ✓ Oct 2013 Obtained notice to proceed construction from FERC
- ✓ Nov 2013 Began Blue Water LNG meter station construction
- □ Apr 2014 Place in-service the Blue Water LNG meter station



Questions or Comments

Xan Kotter, Business Development Project Manager 801-584-6496

Xan.G.Kotter@williams.com

